

In the Claims

1.-28. Cancelled

(New) A method for adaptive channel estimation comprising:

providing a channel estimate;

determining an at least one channel condition;

determining an adapted channel estimate as a function of the channel estimate and the channel condition;

initializing at least one iteration variable;

calculating an error update as a function of the iteration variable; and determining the adapted channel estimate as a function of the error update.

30. (New) The method of claim 29 further comprising:

providing a threshold value;

determining a dominant tap value as a function of the threshold value; and determining the adapted channel estimate as a function of the dominant tap value.

3. (New) A method for adaptive channel estimation comprising:

providing a channel estimate;

determining an at least one channel condition;

determining an adapted channel estimate as a function of the channel estimate and the channel condition;

estimating a plurality of TOA values;

separating the TOA values as a function of a time separation value; and determining the adapted channel estimate as a function of the separated TOA values.



32. (New) A method for adaptive channel estimation comprising:

providing a channel estimate;

determining an at least one channel condition;

determining an adapted channel estimate as a function of the channel estimate and the channel condition;

estimating a plurality of TOA values;

calculating a TOA gradient as a function of the TOA values; and

determining the adapted channel estimate as a function of the calculated TOA gradient.

33. (New) A system for adaptive channel estimation comprising:

means for providing a channel estimate;

means for determining an at least one channel condition;

means for determining an adapted channel estimate as a function of the channel estimate and the channel condition;

means for initializing at least one iteration variable;

means for calculating an error update as a function of the iteration variable; and means for determining the adapted channel estimate as a function of the error update.

34. (New) The system of claim 33 further comprising:

means for providing a threshold value;

means for determining a dominant tap value as a function of the threshold value;

and

means for determining the adapted channel estimate as a function of the dominant tap value.





735. (New) A system for adaptive channel estimation comprising:

means for providing a channel estimate;

means for determining an at least one channel condition;

means for determining an adapted channel estimate as a function of the channel estimate and the channel condition;

means for estimating a plurality of TOA values;

means for separating the TOA values as a function of a time separation value; and means for determining the adapted channel estimate as a function of the separated TOA values.

(New) A system for adaptive channel estimation comprising:

means for providing a channel estimate;

means for determining an at least one channel condition;

means for determining an adapted channel estimate as a function of the channel estimate and the channel condition;

means for estimating a plurality of TOA values;

means for calculating a TOA gradient as a function of the TOA values; and means for determining the adapted channel estimate as a function of the calculated TOA gradient.

